AOR BOUNDARY CONDITIONS DESCRIPTION

CTV II

AoR Boundary Condition

Site Geology and Hydrology

[redacted]

[redacted] This shale has an average permeability of 0.04 md and porosity of 14.7%. [redacted] and a very low matrix permeability which makes it a competent confining zone in preventing the upward migration of fluids.

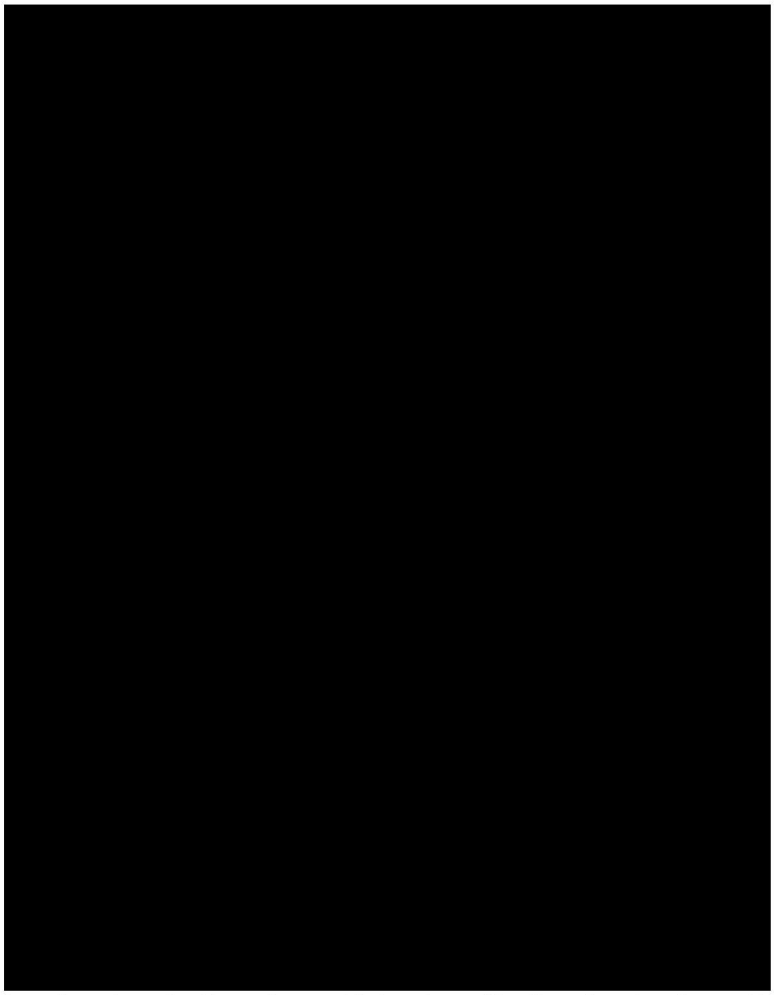

Figure 1. Cross section showing stratigraphy and lateral continuity of major formations across the project area.

The Class VI injection wells will target injection

Well data, open-hole well logs and core (**Figure 3.2**), define the subsurface geological characteristics of stratigraphy, lithology and rock properties. Reservoir performance information (production rates and

volumes, reservoir and wellbore pressures) complements the static characterization by adding the dynamic components, such as reservoir continuity and hydrogeology.

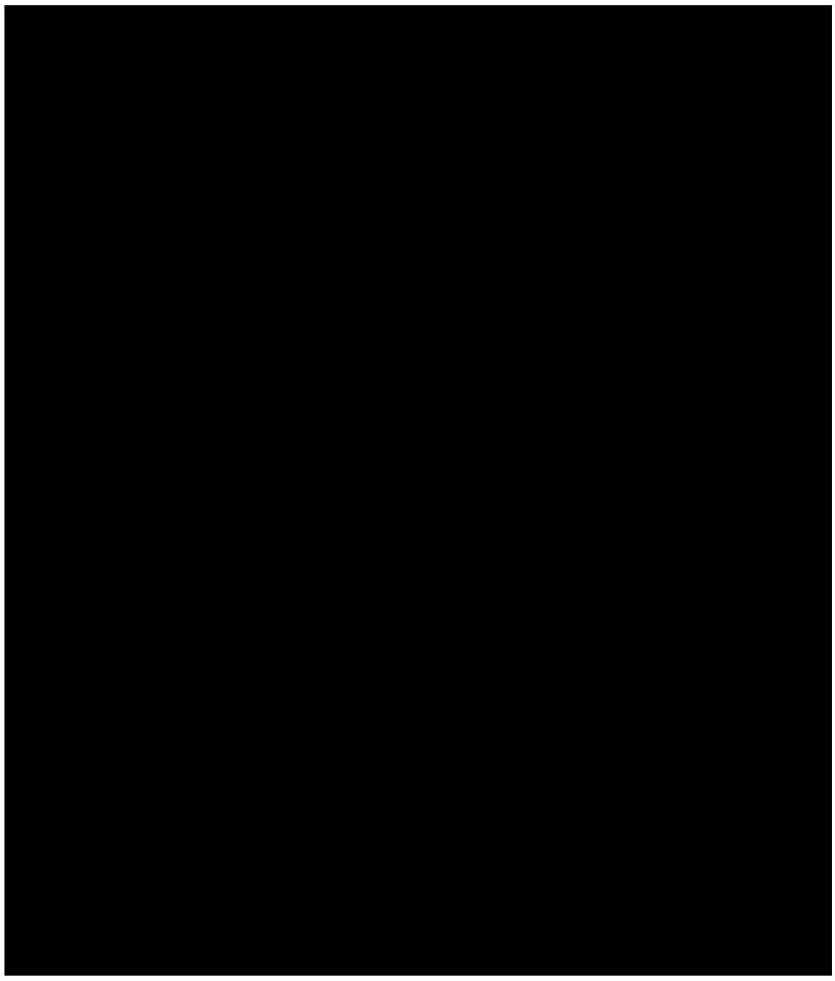

Figure 2. Location of wells with open-hole log data [redacted] relative permeability or capillary pressure data used to develop the static and computational models.

Boundary Conditions

[redacted]. These conditions were based on the following:

1. The overlying [redacted] is continuous through the area, has a low permeability (1 mD) and has confined oil and gas operations.
2. [redacted]

ii. [redacted]

[redacted]